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TO: Dr. H. Wakeham DATE: November 11, 1965

FROM: F. E. Resnik

SUBJECT: Coumarin in Commercial Cigarettes

The purpose of this memo is to summarize the current information on the use of coumarin as a flavorant in commercial cigarette brands. All six major tobacco companies use coumarin in their cigarettes; however, Reynolds does not use this flavorant in their major cigarette brands.

Some time prior to November 1963, the Reynolds Tobacco Company discontinued the use of coumarin in Winston, Salem, and Camel cigarettes. A recent check of these cigarette brands show that cigarettes manufactured in October 1965 do not contain coumarin. Camel Filter cigarettes recently introduced in various test markets contain coumarin at a level of about 57 parts per million.

The American Tobacco Company cigarettes contain coumarin. The recent introduction of Lucky Strike Filter cigarettes resulted in a marked increase in the use of coumarin relative to Tareyton and Pall Mall cigarettes.

The Liggett & Myers Lark cigarette contains a very high amount of coumarin while the L & M brand contains a low level of coumarin.

The Kent brand of the P. Lorillard Company contains a moderate level of coumarin.

The Brown & Williamson Company uses a low level of coumarin in their Kool and Belair cigarettes; however, the Viceroy cigarettes were found to be void of coumarin.

The Philip Morris brands were found to range from low to moderate coumarin levels.

Data on the amount of coumarin found in the major commercial brands are summarized in the attached table.

FER:rab

F. E. Resnik

cc: RADOC

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ACCEPT

COUMARIN CONTENT OF MAJOR BRANDS

	Date of Manufacture (1965)	Parts per Million on Tobacco	
Philip Morris			
Parliament	June	55	28
P. M. Commander	June	45	—
Marlboro	June	16	5
P. M. Filter	April	15	4
Paxton	October	14	—
Alpine	June	13	—
Reynolds			
Camel Filter	October	57	N.I
Winston	October	Not Detected	N.I
Salem	October	Not Detected	N.I
Camel	October	Not Detected	—
Temper	Feb-	"	"
American			
~~Luck Strike - non-filter~~	Feb.	trace	—
Lucky Strike Filter	June	212	4
Tareyton	April	62	42
Pall Mall	April	41	
Carlton	Feb.	High	
Liggett & Myers			
~~Old Gold Filter~~	Feb.	moderate	—
Lark	June	176	90
L & M	March	25	10
Chesterfield king	Feb.	moderate	—
P. Lorillard			
Kent	October	44	—
Brown & Williamson			
Kool	October	37	9
Belair	June	34	—
Viceroy	March	Not Detected	3
Raleigh	Feb.	low	

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References

1. Memo to F. E. Resnik from C. Varsel entitled, "Analysis of coumarin on Pall Mall and Camel Cigarettes," dated September 29, 1964.

2. Memo to F. E. Resnik from R. J. Levins entitled, "A Simple Test for Coumarin in Cigarette Filler and Plugs," dated April 7, 1965.

3. Completion Report written by John Moody entitled, "The Quantitative Determination of Coumarin in Cigarettes," dated September 21, 1965.

4. Memo to F. E. Resnik from R. J. Levins entitled, "Coumarin in Camel Filter Cigarettes," dated November 9, 1965.

Source: https://www.industrydocuments.ucsf.edu/docs/zkpk0001